

Gould's Invertebrata of Massachusetts. Other excellent papers appearing in the Reports of the Fish Commission are "Results of the Explorations made by the steamer *Albatross*" in 1883, and Report on the Cephalopods of Northeastern Coast of America, 1882. The paper "Catalogue of Marine Mollusca added to the Fauna of New England," appeared in the Trans. Conn. Acad., Vols. 5 and 6, 1882-85, and a study of the Family Pectinidae in 1887. The Cephalopods of the "Blake" (Bull. Mus. Comp. Zool., Vols. 8 and 11) appeared in 1881 and 1883. Numerous papers were also published in the American Journal of Science. His great work on the Bermuda Islands (Trans. Conn. Acad., Vols. XI and XII, 1902-1907) contains much of interest pertaining to the Mollusca, as well as to other branches of the zoology, the geology and history of the island.—C. W. J.

LAND AND FRESH-WATER SHELLS FROM NEWFOUNDLAND

BY E. G. VANATTA

The following is a list of the species of shells collected by Bayard Long in Newfoundland during July, August and September of 1925 and 1926. The smaller forms were picked from debris scraped from rock crevices and the surface of the ground in thickets and damp spots. The specimens referred to in THE NAUTILUS, Vol. 38, 1925, p. 93 as *Vertigo hoppü?* prove to be *Vertigo modesta*. All the specimens are in the collection of the Academy of Natural Sciences of Philadelphia.

Helix hortensis Müll. Doctor Hill and Bard Harbor Hill, Highland of St. John, St. John's Bay, Straits of Belle Isle; French Island = Tweed Island, and Lark Island, Bay of Islands, Newfoundland.

Pupilla muscorum L. Doctor Hill; Anse aux Sauvages near Cape Onion; Ha Ha Cape, Ha Ha Bay; Cape Norman.

Vertigo modesta Say. Anse aux Sauvages, Sacred Island off Cape Onion, Brig Bay, Ha Ha Cape, Yankee Point, Savage Point, Back of Savage Cove, Sandy Cove = Poverty Cove, Bard Harbor Hill, Doctor Hill.

Vertigo modesta Say. approaching form *castanea* St. Brandy Island = Schooner Island, Pistolet Bay; Cape Norman; Flower Cove.

Vertigo modesta Say. var. *parietalis* Anc. Anse aux Sauvages, Sacred Island, Ha Ha Cape.

Vertigo ventricosa Mrse. var. *elatio* St. Schooner Island.

Vertigo coloradensis Ckll. var. *basidens* P. & V. Ha Ha Cape, Bard Harbor Hill.

Columella edentula Drap. Anse aux Sauvages, Sacred Island, Schooner Island, Cape Norman, Savage Point, Yankee Point, Ha Ha Cape, Doctor Hill.

Zoogenetes harpa Say. Ship Cove, Sacred Bay; Anse aux Sauvages; Deer Pond Brook, Bard Harbor.

Cochlicopa lubrica Müll. Schooner Island; Ha Ha Cape; Tweed Island; Eddies Cove Brook, Eddies Cove; Back of Savage Cove; Bard Harbor Hill; Doctor Hill.

Polita hammonis Ström. Anse aux Sauvages, Schooner Island, Cape Norman, Tweed Island, Ha Ha Cape, Bard Harbor Hill, Doctor Hill.

Euconulus fulvus Drap. Anse aux Sauvages, Schooner Island, Cape Norman, Savage Cove, Ha Ha Cape, Bard Harbor Hill, Doctor Hill.

Zonitoides arborea Say. Burnt Cape, Pistolet Bay; Bard Harbor Hill, Doctor Hill.

Vitrina limpida Gld. Anse aux Sauvages, Sacred Island, Cape Norman, Ship Cove, Ha Ha Cape, Flower Cove, Bard Harbor Hill, Doctor Hill.

Agriolimax agrestis Müll. Bard Harbor Hill, Doctor Hill.

Agriolimax campestris Binn. Mauve Bay near Cape Baud, Lark Harbor, Back of Savage Cove, Ha Ha Cape, Yankee Point, Flower Cove, Doctor Hill.

Arion hortensis Fér. Lark Harbor.

Gonyodiscus cronkhitei Newc. Anse aux Sauvages, Yankee Point.

Gonyodiscus cronkhitei Newc. var. *anthonyi* Pils. Cape Norman, Ha Ha Cape, Back of Savage Cove, Bard Harbor Hill, Doctor Hill.

Punctum pygmaeum Drap. Bard Harbor Hill.

Succinea ovalis Say. Lark Harbor, Savage Cove, Flower Cove, Eddie's Cove, St. John's Island, Bard Harbor Hill, Doctor Hill.

Succinea avara Say. Sandy Cove, Cape Norman, Yankee Point, Four Mile Cove, Big Brook, St. John's Island, Flower Cove, Back of Savage Cove, Savage Point.

Succinea verrilli Bld. Anchor Cove, Flower Cove, Bard Harbor Hill, St. John's Island.

Lymnæa palustris Müll. Cook Point, Pistolet Bay; Schooner Island; Sandy Cove; Flower Cove; Otter Pond near Plum Point; Brig Bay; Eddie's Cove; Boat Harbor; Big Brooks; Savage Point; St. John's Island.

Physa gyrina Say. Otter Pond near Plum Point, Brig Bay.

Planorbis parvus Say. Otter Pond near Plum Point, East Brook at St. Barbe Bay, Eddies Cove Brook.

Valvata lewisii Curr. Eddies Cove Brook.

Sphaerium occidentale Prime. Otter Pond near Plum Point.

Anodonta marginata Say. Otter Pond near Plum Point.

DESCRIPTIONS OF NEW FORMS OF PLEISTOCENE LAND MOLLUSKS
FROM ILLINOIS WITH REMARKS ON OTHER SPECIES

BY FRANK COLLINS BAKER¹

The study of a large amount of material from loess deposits of Illinois, collected by members of the State Geological Survey of Illinois, has revealed some forms which appear to need recognition either as species or varieties. The modern study of paleontology has drawn rather more closely the limits of specific and varietal differentiation than has been thought desirable previously, but the recognition of the faunas of minor horizons has necessitated such procedure for the purpose of identifying the strata by the presence of characteristic variations which are

¹Contribution from the Museum of Natural History, University of Illinois, No. 42.